

**ABSTRACT**

**NEW MUTATIONAL PROFILES IN HIV-1 PROTEASE CORRELATED  
WITH PHENOTYPIC DRUG RESISTANCE**

The present invention is directed to the field of nucleic acid diagnostics and the identification of base variation in target nucleic acid sequences. More particularly, the present invention relates to the use of such genotypic characterization of a target population of HIV and the subsequent association, *i.e.*, correlation, of this information to phenotypic interpretation in order to correlate virus mutational profiles with drug resistance. The invention also relates to methods of utilizing the mutational profiles of the invention in drug development, *i.e.*, drug discovery, drug design, drug modification, and therapy, treatment design, clinical management and diagnostic analysis.